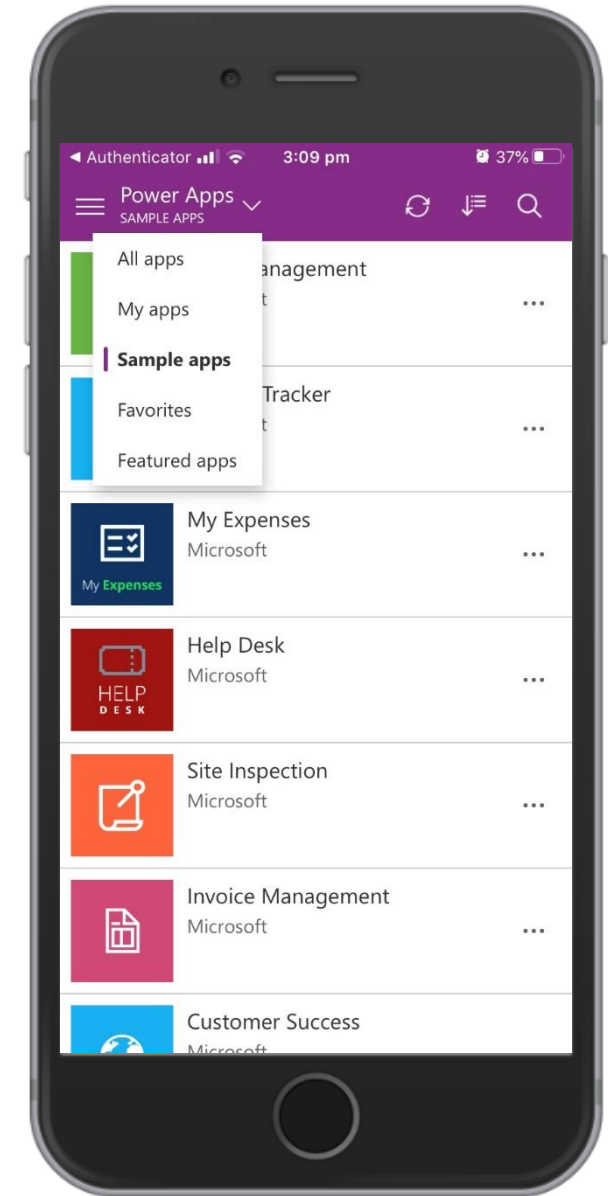


Getting Started



Topics

- Building a new app from a data source
- Add, edit and remove controls and screens
- Formulas
- Testing an app
- App settings
- Save, publish and share apps
- Version history and restore
- Power Apps mobile app



* Page 2 - During - meeting

Page 1

SP list (SAL in list)

Region	Full Staff	Acc	Branch	Action

SP list

Sched	Agenda	Date

+ more SP + v
SP library

engage. pdf
engage. pdf
engage. pdf

SP list for demo

Acc	Branch	Sched

How to manage endless notes? - for account?

Notes

Acc	Branch	Full	Note

New page

New Page

Simon

+ Create on app

Loop column references on European agenda? or maybe another one!



**combined
knowledge**

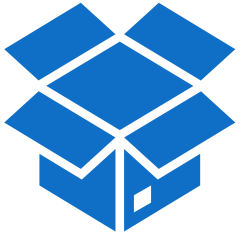
feedback
WEBINAR SERIES

A POWER PLATFORM CASE STUDY

August 19th 2020



How to create an app



Microsoft sample template

- Have an amazing app in minutes
- It's not specific to your requirements
- Can be difficult to customise as you didn't create it and they are complex



From a blank template

- The most time consuming



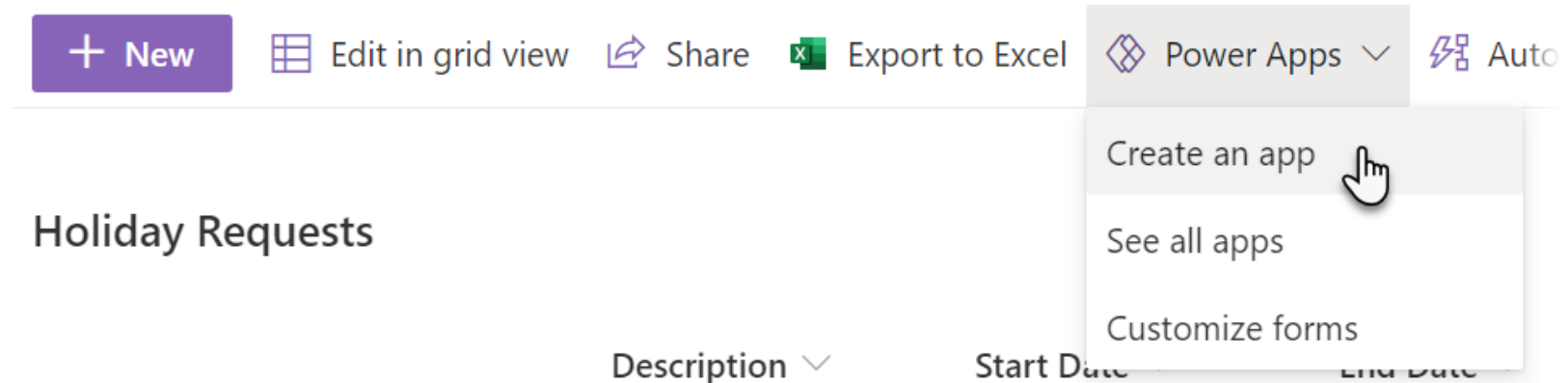
From data source

- Create an app in just a few clicks
- App is relevant to your existing data source
- Works for many data sources

Building a new app from a data source

- Existing SharePoint list
- App requirements:
 - View existing Items
 - Search items
 - Add new Items
 - Update existing Items
 - Delete items

This can all be created in 2 minutes!



- Don't worry if you aren't planning to use SharePoint in your apps, the techniques we use here will work with many other data sources

Power Apps designer interface

The screenshot displays the Power Apps designer interface, which is used for creating and editing mobile and web applications. The interface is divided into several key sections:

- App launcher:** Located at the top left, it features a grid icon for launching other apps.
- Ribbon:** A horizontal bar at the top containing tabs for File, Home, Insert, View, Action, and Settings. The Home tab is currently active, showing various formatting and layout options.
- Formula bar:** Positioned below the ribbon, it displays the formula for the selected control, which is `OnSelect = Navigate(Screen1)`.
- Tool bar:** A vertical bar on the left side of the canvas, containing icons for adding new screens, controls, and other tools.
- Tool pane:** A vertical bar on the right side of the canvas, containing icons for zooming, panning, and other canvas manipulation tools.
- Tree view:** A panel on the left side of the canvas that shows the hierarchical structure of the app. It includes a search bar and a list of controls, including Screen1, Image1, Button1, Header_1, Gallery1, Screen2, Label6, and Icon2_1.
- Canvas:** The central workspace where the app is designed. It shows a form titled "Objectives" with fields for Name, Assigned, Title, Description, and Status. A "Save objectives" button is also visible.
- Properties pane:** A panel on the right side of the canvas that displays the properties of the selected control. It includes tabs for Properties and Advanced, and lists various properties such as Icon, Rotation, Display mode, Visible, Position, Size, and Padding.
- Environment:** A dropdown menu at the top right of the interface, currently set to "Environment Combined Knowledge (...)".

Add, edit and remove controls and screens

- Controls

- Controls are the building blocks of Power Apps



- Each control can be configured using properties

Properties	Advanced
Text	<input type="text" value="Compare"/>
Font	<input type="text" value="Open Sans"/>
Font size	<input type="text" value="16"/>

- We will continue to learn about controls in all modules of this course, module 4 is dedicated to the subject of controls
- More than one control can be selected while holding the **Ctrl** key, allowing grouping

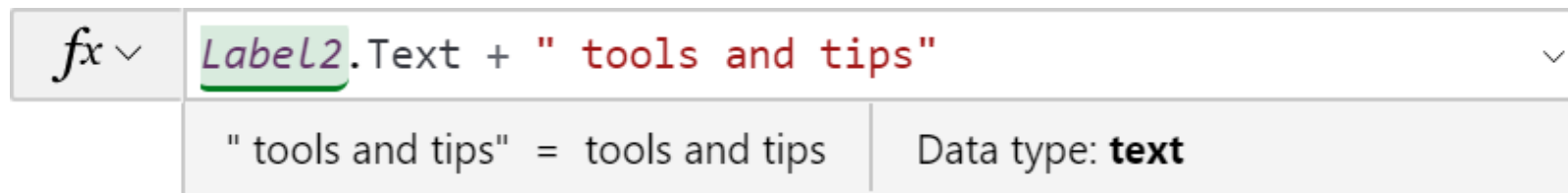
- Screens

- You can also add new **screens** to your app
- The screen at the top of the list is the first screen that opens on the app



Formulas – Power Fx

- Like Microsoft Excel, you can achieve so much more by learning about formulas
- Formulas make your Power Apps dynamic, for example
 - Static Date "3rd Jan 2020"
 - Dynamic Date Today()
- Formulas use functions which can relate to other controls in the app and even other services
- Power Apps uses intellisense



- Separate formulas can be stitched together with a **semicolon**, for example:
`Navigate(Features, ScreenTransition.Fade);Clear(CustomerCheckList)`

What can formulas do?

- Formulas are not only used for calculating numbers, they can be used for:
 - Navigation (move between screens)
 - Save information to a data source
 - Apply conditional formatting
 - Display information about the current user
 - Display your current location
 - Pass information from one control to another control
 - And more...



OnSelect ▾ = *fx* ▾ Navigate(*Video*, Fade) ▾

Microsoft Power Apps functions

Action	Collection	Data	Device	Logic	Mathematical	Text
Concurrent	Collect	Calendar	App	And/Or	Average	Concatenate
Exit	Filter	DateDiff	Clock	Blank	CountRows	EncodeUrl
Launch	FirstN	Defaults	Connection	If	Len	Find
Navigate	ForAll	RGBA	Enable/Disable	IsBlank	Min	HashTags
Notify	Removelf	Set	Lanaguage	IsMatch	Rand	Split
Refresh	Search	SubmitForm	Param	IsNumeric	Round	Text
Revert	Select	Today	User	Not	Sum	Value

<https://docs.microsoft.com/en-us/PowerApps/maker/canvas-apps/formula-reference>

Formula example

- Adding the contents of two input boxes
- The result is displayed in a label

The screenshot shows a design tool interface. At the top, a formula bar displays 'Text' in a dropdown, followed by an equals sign and a function icon 'fx'. The formula 'TextInput1+TextInput2' is entered, with 'TextInput1' highlighted in green and 'TextInput2' in pink. Below the formula bar, a message box states 'TextInput2 = This data type is unsupported for evaluation.' with 'Data type: **Control**'.

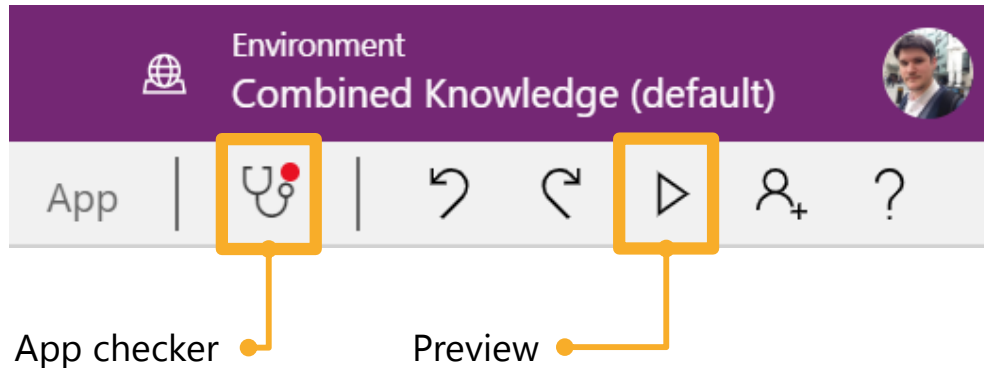
On the left, a 'Tree view' pane shows a project structure: 'App' > 'Screen1' > 'Label1' (selected), 'TextInput2', and 'TextInput1'. A 'Home' button is at the bottom.

On the right, a preview of the UI is shown. It features two text input boxes: the top one contains '10' and has a green border, while the bottom one contains '20' and has a pink border. Below these is a label displaying '30' with a diagram of three connected circles.

- You will learn about formulas during every module on this class

Testing an app

- While creating an app in the canvas formulas will be recalculated automatically
- Hold down **ALT** to test buttons including navigation function
- Click **Preview** to run the app
- Use the **App checker** to locate errors and accessibility issues



Results by screen

✓ Errors (1)

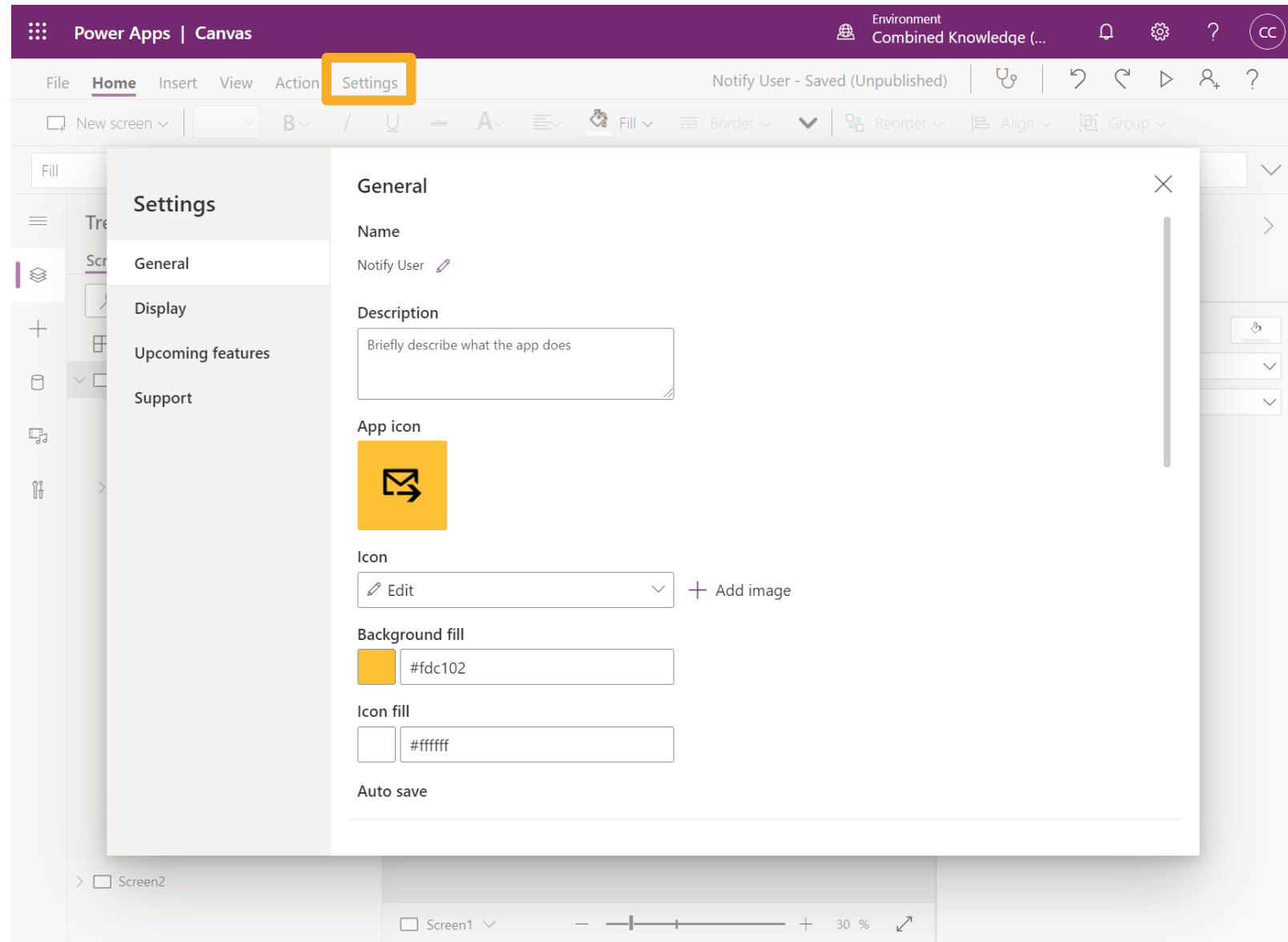
✓ TechSpecs (1)

Name isn't valid. This identifier isn'...
Body1
.Text



App settings

- Choose your apps:
 - Name
 - Icon
 - Description
 - Display
- Choose to include or exclude preview, experimental and deprecated features



Screen size and orientation

Display

Select the screen size and orientation for your app.



Orientation

 Landscape



Size

16:9 Default



Scale to fit

Scales the app to fit available space. Turning this off allows control layout adjust to the available space.



On

Lock aspect ratio

Locking this automatically maintains the ratio between height and width to prevent distortion.



On

Lock orientation

Locking orientation keeps the screen in its current orientation, even when the device is rotated.



On

Advanced Settings

Advanced settings

Data row limit for non-delegable queries

Set how many rows are retrieved from server-based connections where delegation is not supported.

Value:



Preview features

These features will be turned on for all apps soon. Please test your apps with these features enabled and report any problems



Delayed load

Speed up your app's start time by setting on-demand screen expression calls.

☒ On

Use non-blocking OnStart rule

In the published app, allows the app's OnStart rule to execute in parallel with other app rules. When disabled, your app's other rules will wait for OnStart to finish before executing.

☐ Off

Explicit column selection

Optimizes load times and reduces memory consumption by only fetching columns used in your app. Target data source must support this feature.

☐ Off

Experimental features

These features might change, break, or disappear at any time.



Formula-level error management

Create custom errors to improve app usability and gather valuable error information.

☐ Off

Optimize embedding appearance

Optimizes for embedded experiences by aligning the app to top left. Turning this setting on will change the embedded background color to white.

☐ Off

Container control

Create hierarchical layouts for responsiveness and accessibility.

☐ Off

Deprecated features

These features will be replaced or removed soon. Select the information icon to learn about the alternatives and timeline.



Enable Rules

Use the Rules interface to create conditions and record actions to modify an app.

☐ Off

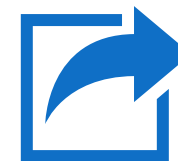
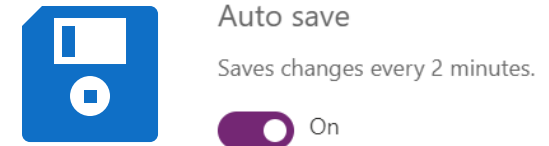
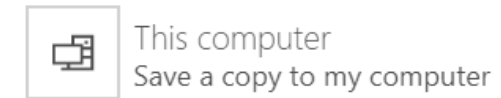
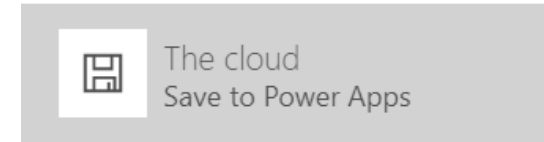
Relational data, option sets, and other new features for CDS

Enjoy deeper data type and relationship support with CDS. See the Power Apps blog for more details. If you encounter any problems please let us know through the community forum.

☐ Off

Save, publish and share an app

- The buttons to save, publish then share can only be accessed in sequence, for example you can't share until you have first saved and published
- **Save** – stores the app for future reference (in some situations your first save will automatically publish as well)
- **Publish** – “go live” the app is now available for you to use
- **Share** – make the app available to other users in your organisation



Sharing an app

- You can share an app with
 - Individuals
 - Security Groups
 - Entire Organisation
 - Guests (if already in Azure AD)
- Make sure to also share data sources
- You can offer the following access levels:
 - Can use – consume the app on a mobile device or in location where it is embedded, for example in a SharePoint Online page
 - Co-owner – consume the app and edit the apps design

The screenshot displays the 'Share' interface for a Microsoft 365 app. At the top, there is a search bar labeled 'Enter a name, email address, or Everyone'. Below it, a list of users is shown under the heading 'Shared with'. The list includes Chris Casingena (Owner) and Claire Hodgson (Co-owner). To the right of the user list, there is a section for 'Data permissions' with a help icon. It states 'Make sure your users have access to the data used in your app, including gateways, APIs, connectors, and entities.' Below this, there are two data sources listed: 'Excel' and 'OneDrive for Business'. On the far right, there is a detailed view for 'Claire Hodgson', showing her role as 'Co-owner' and the permissions: 'This user can use this app.' and 'Can use, edit, share app but not delete or change owner.' Below this, there is a section for 'Magnus Flett (guest)', showing his role as 'Guest' and the permissions: 'This user can use this app.' and 'Can use, edit, share app but not delete or change owner.'

Enter a name, email address, or Everyone

Shared with Sort by Name

Chris Casingena
Owner

Claire Hodgson
Co-owner

Claire Hodgson
This user can use this app.

Co-owner
Can use, edit, share app but not delete or change owner.

Data permissions ⓘ

Make sure your users have access to the data used in your app, including gateways, APIs, connectors, and entities.

Excel

OneDrive for Business

Magnus Flett (guest)
This user can use this app.

Guests can be Users but not Co-owners.

Co-owner
Can use, edit, share app but not delete or change owner.

Version history and restore

Version		Modified	Modified by	Power Apps relea...	Published
Version 8	...	03/12/2019 12:27:20	Chris Casingena	3.19112.26	Live
✓ Version 7	...	03/12/2019 10:34:53	Chris Casingena	3.19112.26	
Version 6			Chris Casingena	3.19112.26	
Version 5			Chris Casingena	3.19112.26	

 Restore

 Delete

Power Apps mobile app

- The Power Apps mobile app is often the most convenient way for a user to consume a Power App
- The touch screens on mobile devices provide a great way to interact with apps
- You can get the app for:
 - Windows Phone devices
 - iOS devices
 - Android devices
- Try a sample app, if you haven't published any apps yet

